

Product designation				Rotary cam switches		
Product type designation				7GN20		
General characteristics						
Switching diagram				94 - Multi-step 1-2-3-4 3 poles		
N° of elements				6		
Mounting form				U47 - Snap on front mounting with black handle for hole diam. 22mm fixing		
Contact characteristics						
Rated insulation voltage U_i	IEC/EN	V	690			
	UL/CSA	V	600			
Rated impulse withstand voltage U_{imp}		kV	6			
Conventional free air thermal current I_{th}	IEC/EN	A	20			
	UL/CSA	A	20			
Rated operational voltage		V	480			
Rated operational impulse voltage		kV	4			
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	20			
	15kA	A	16			
	25kA	A	16			
Rated short time current I_{cw}		1s	kA	250		
				10/5 mA/V		
Conductivity				10/5 mA/V		
Operational current I_e IEC/EN	AC1/AC21A			A		
	AC15					
Rated operational power in AC	Three-phase AC-3			110V	A	10
				220/230V	A	8
				380/400V	A	6
	Single-phase AC-3			660/690V	A	1.5
				220/230V	kW	3
				380/440V	kW	5.5
	Three-phase AC-3			500/690V	kW	5.5
				110V	kW	0.8
				220/230V	kW	2.2
	Single-phase AC-3			380/440V	kW	3
				110V	kW	0.8
				220/230V	kW	2.2
Three-phase AC23A			380/440V	kW	3	
			220/230V	kW	5	
			380/440V	kW	7.5	
Single-phase AC23A			500/690V	kW	7.5	
			110V	kW	0.8	
			220/230V	kW	2.5	
Single-phase AC23A			380/440V	kW	3.7	
			110V	kW	0.8	
			220/230V	kW	2.5	
Single-phase AC23A			380/440V	kW	3.7	
			110V	kW	0.8	
			220/230V	kW	2.5	
Single-phase AC23A			380/440V	kW	3.7	
			110V	kW	0.8	
			220/230V	kW	2.5	
Single-phase AC23A			380/440V	kW	3.7	
			110V	kW	0.8	
			220/230V	kW	2.5	

Rated operational current in DC
DC21A

48V	A	20
60V	A	20
110V	A	4
220V	A	0.6
440V	A	0.25

DC23A (poles in series)

24V	A	20 (1)
48V	A	20 (2)
60V	A	20 (3)
110V	A	10 (3)
220V	A	8 (4)

DC13

24V	A	20
48V	A	16
60V	A	12
110V	A	1
220V	A	0.4
440V	A	0.15

Power dissipation W 0.8

Mechanical features

Terminals screw M3

Tightening torque for terminals max Nm 0.5

Conductor size

AWG - Rigid cable

min	AWG	20
Max	AWG	12

AWG - Flexible cable

min	AWG	20
Max	AWG	14

Conductor size (IEC) - Flexible cable

min	mm ²	0.5
Max	mm ²	2.5

Conductor size (IEC) - Rigid cable

min	mm ²	0.5
Max	mm ²	2.5

Mechanical life cycles 5x10⁶

UL technical data

Motor power for direct-on-line control

for three-phase motor

120V	HP	1.5
240V	HP	3
480V	HP	7.5
600V	HP	10

for single-phase motor

120V	HP	0.75
240V	HP	2

Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

